

Specifications

Engine

STIHL single cylinder two-stroke engine

TS 700

Displacement:	98.5 cm ³
Bore:	56 mm
Stroke:	40 mm
Engine power to ISO 7293:	5.0 kW (6.8 HP) at 9300 rpm
Idle speed:	2200 rpm
Max. spindle speed to ISO 19432:	5080 rpm

TS 800

Displacement:	98.5 cm ³
Bore:	56 mm
Stroke:	40 mm
Engine power to ISO 7293:	5.0 kW (6.8 HP) at 9300 rpm
Idle speed:	2200 rpm
Max. spindle speed to ISO 19432:	4290 rpm

Ignition system

Electronic magneto ignition

Spark plug (suppressed):	Bosch WSR 6 F, NGK BPMR 7 A
Electrode gap:	0.5 mm

Fuel system

All position diaphragm carburetor with integral fuel pump

Fuel tank capacity: 1.2 l

Air filter

Main filter (paper filter) and flocked wire mesh auxiliary filter

Weight

Empty weight without cutting wheel, with water attachment, without fuel	
TS 700:	11.6 kg
TS 800:	13.0 kg

Cutting wheels

The quoted maximum permissible operating speed of the cutting wheel must be greater than or equal to the maximum spindle speed of the cut-off machine used.

Cutting wheels (TS 700)

Outside diameter:	350 mm
Hole diameter/spindle diameter:	20 mm
Tightening torque:	30 Nm

Composite resin cutting wheels

Minimum outside diameter of front thrust washer: ^{1) 2)}	103 mm
Max. depth of cut: ³⁾	125 mm

- 1) For Japan 118 mm
- 2) For Australia 118 mm
- 3) When using thrust washers with an outer diameter of 118 mm, the maximum cutting depth is reduced to 116 mm

Diamond cutting wheels

Minimum outside diameter of front thrust washer: ¹⁾	103 mm
Max. depth of cut: ³⁾	125 mm

- 1) For Japan 118 mm
- 3) When using thrust washers with an outer diameter of 118 mm, the maximum cutting depth is reduced to 116 mm

Cutting wheels (TS 800)

Outside diameter:	400 mm
Hole diameter/spindle diameter:	20 mm
Tightening torque:	30 Nm

Composite resin cutting wheels

Minimum outside diameter of front thrust washer: ^{1) 2)}	103 mm
Max. depth of cut: ³⁾	145 mm

- 1) For Japan 140 mm
- 2) For Australia 140 mm
- 3) When using thrust washers with an outer diameter of 140 mm, the maximum cutting depth is reduced to 130 mm

Diamond cutting wheels

Minimum outside diameter of
front thrust washer: ¹⁾ 103 mm
Max. depth of cut: ³⁾ 145 mm

1) For Japan 140 mm

3) When using thrust washers with an
outer diameter of 140 mm, the
maximum cutting depth is reduced
to 130 mm

Sound and vibration levels

When determining sound and vibration
levels, idling and full load are taken into
account in a ratio of 1:6.

For further details concerning
compliance with the employers'
Directive on vibration 2002/44/EEC, see
www.stihl.com/vib/

Sound pressure level L_{peq} to EN ISO 11201

TS 700: 101 dB(A)
TS 800: 100 dB(A)

Sound pressure level L_{weq} to ISO 3744

TS 700: 113 dB(A)
TS 800: 113 dB(A)

Vibration acceleration $a_{hv,eq}$ to ISO 19432

	Handle,	Handle, left right
TS 700:	6.6 m/s ²	4.5 m/s ²
TS 800:	6.5 m/s ²	3.9 m/s ²

The K-value in accordance with
Directive 2006/42/EC is 2.5 dB(A) for
the sound pressure level and sound

power level; the K-value in accordance
with Directive 2006/42/EC is 2.0 m/s²
for the vibration measurement.

REACH

REACH is an EC regulation and stands
for the Registration, Evaluation,
Authorisation and Restriction of
Chemical substances.

For information on compliance with the
REACH regulation (EC) No. 1907/2006
see www.stihl.com/reach.

Special Accessories

- Set of tools
- STIHL cut-off machine cart FW 20
- Attachment kit for cut-off machine
FW 20
- Water tank mounting kit
- Pressurized water tank mounting kit
- Cutting direction indicator
- Set of wheels

Ask your STIHL dealer for current
information on this and other special
accessories.